MULTI-SWELL™ Style 3760

MATERIAL PROPERTIES*:

Color:	Blue/Off-white
Composition:	Synthetic fibers with a proprietary rubber binder
Fluid Services (see chemical resistance guide)**:**	Potable (Drinking) Water, aliphatic hydrocarbons, oil, kerosene, diesel
Temperature[1], °F (°C)	
Minimum:	-100 (-73)
Continuous Max:	+400 (+205)
Pressure[1], psig (bar):	
Maximum:	500 (34.5)
Minimum:	Full Vacuum
P x T (max.)[1], psig x °F (bar x °C):	
1/32 and 1/16":	150,000 (5,100)
1/8"	100,000 (3,400)
Meets Specifications:	ABS (American Bureau of Shipping) Certified to NSF/ANSI/CAN 61-G & 372

TYPICAL PHYSICAL PROPERTIES*:

ASTM F36	**Compressibility** , average, %:	15	
ASTM F36	**Recovery**, %:	40	
ASTM F38	**Creep Relaxation,** %:	30	
ASTM F152	**Tensile**, Across Grain, psi (N/mm^2):	1000 (6.9)	
ASTM F1315	**Density**, lbs./ft.^{3} (grams/cm^3):	85 (1.36)	
ASTM D149	**Dielectric Properties,** range, volts/mil.		
	Sample conditioning	1/16"	1/8"
	3 hours at 250°F	607	385
	96 hours at 100% Relative Humidity:	-	-
ASTM F586	**Design Factors (gas – nitrogen)**	1/16" & Under	1/8"
	"m" factor:	8.1[(2)]	7.4[(2)]
	"y" factor, psi (N/mm^2):	2500 (17.2)[(2)]	2300 (15.8)[(2)]
ASTM F586	**Design Factors (liquid – water)**	1/16" & Under	1/8"
	"m" factor:	2.0[(2)]	2.0[(2)]
	"y" factor, psi (N/mm^2):	300 (2.0)[(2)]	300 (2.0)[(2)]

SEALING CHARACTERISTICS*

	ASTM F37B – Fuel A	ASTM F37B - Nitrogen
Gasket Load, psi (N/mm2):	500 (3.5)	3000 (20.7)
Internal Pressure, psig (bar):	9.8 (0.7)	30 (2)
Leakage	**0.20 ml/hr.**	**0.40 ml/hr.**

Notes:

* This is a general guide and should not be the sole means of selecting or rejecting this material. ASTM test results in accordance with ASTM F-104; properties

[1] Based on ANSI RF flanges at our preferred torque. When approaching maximum pressure, continuous operating temperature, minimum temperature or 50% of maximum PxT, consult Garlock Applications Engineering. Minimum temperature rating is conservative.

[2] The MULTI-SWELL™ product is intended for use in water, oils, and fuels (liquids). Therefore, while gas (nitrogen) m & y values are provided, the liquid values are more appropriate when comparing to existing flange designs.

REV: April 2026

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